

### AMENDMENTS TO THE CLAIMS

Please amend the claims to read as follows and cancel the claims marked cancelled without prejudice:

1. (Currently Amended) A method comprising:  
  
determining a size of a data item to be transferred in a communication network;  
  
determining a data transfer window size of a sending device in the network; and  
  
dynamically modifying a payload header suppression ~~module~~ rule if ~~[[a]]~~ the size of the data item is greater than the data transfer window size.
2. (Currently Amended) The method of claim 1, comprising dynamically setting the payload header suppression ~~module~~ rule.
3. (Cancelled)
4. (Currently Amended) The method of claim 1, comprising comparing the ~~property~~ size of the data item to ~~[[the]]~~ a threshold value.
5. (Cancelled)
6. (Currently Amended) The method of claim 1, wherein dynamically modifying a payload header suppression rule causes ~~comprising~~ dynamically suppressing a static portion of an acknowledgment packet.
7. (Currently Amended) The method of claim 6, wherein dynamically modifying a payload header suppression rule causes ~~comprising~~ restoring the suppressed static portion of said acknowledgment packet.
8. (Original) The method of claim 1, comprising dynamically modifying a characteristic of the data item in relation to an analysis of a header and a content of said data item.
9. (Currently Amended) The method of claim 1, comprising repeating the determining a size of a data item and the dynamically modifying the payload header suppression ~~module~~ rule.
10. (Currently Amended) An apparatus comprising:  
  
a memory to store instructions that when executed by a processor, to determine a size of a data item to be transmitted over a communication network, to determine a data

window size of a sending device in the network, and to change a payload header suppression rule if the size of the data item is greater than the data transfer window size; and

a processor to execute the instructions stored in the memory.

11. (Currently Amended) The apparatus of claim 10, wherein the processor is to dynamically modify ~~[[a]]~~ the payload header suppression ~~module~~ rule.

12. (Currently Amended) The apparatus of claim 10, wherein the processor is to dynamically set ~~[[a]]~~ the payload header suppression ~~module~~ rule.

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Currently Amended) The apparatus of claim 10, wherein the processor is to change a payload header suppression rule to cause suppressing ~~suppress~~ a static portion of an acknowledgment packet.

17. (Currently Amended) The apparatus of claim 16, wherein the processor is to change a payload header suppression rule to cause rebuilding ~~rebuild~~ the suppressed static portion of said acknowledgment packet.

18. (Original) The apparatus of claim 10, wherein the processor is to dynamically modify a property of the data item in relation to an analysis of a header and a content of said data item.

19. (Original) The apparatus of claim 10, wherein the apparatus comprises a modem.

20. (Original) The apparatus of claim 10, wherein the apparatus comprises a cable modem.

21. (Original) The apparatus of claim 10, wherein the apparatus comprises a cable modem termination system.

22. (Currently Amended) A modem comprising:

~~a dynamic random access memory; and~~

a dynamic random access memory to store instructions, that, when executed by a processor, [[to]] dynamically determine a size of a data item to be transmitted over a communication network, to determine a data transfer window size of a sending device in the network, and to dynamically change a payload header suppression rule if the size of the data item is greater than the data transfer window size; and

a processor to execute the instructions stored in the dynamic random access memory.

23. (Currently Amended) The modem of claim 22, wherein the processor is to dynamically set [[a]] the payload header suppression module rule.

24. (Currently Amended) The modem of claim 22, wherein the processor is to dynamically change a payload header suppression rule to cause suppressing suppress a static portion of an acknowledgment packet.

25. (Currently Amended) A machine-readable medium having stored thereon a set of instructions that, if executed by a machine, cause the machine to perform a method comprising:

determining a size of a data item to be transmitted;

selectively suppressing a portion of a header of the data item if [a] the size of the data item is greater than a data transfer window size; and

repeating the determining and the selectively suppressing.

26. (Original) The machine-readable medium of claim 25, wherein the portion of the header is a portion of an acknowledgement packet.

27. (Cancelled)